

## Quick Look II Report

Device: Secura DR D224DRG

Serial Number: [REDACTED]

Date of Visit: 09-Aug-2012 08:56:28

Patient: Hubbard, Amanda

ID: [REDACTED]

Physician: Pablo Saavedra, MD

### Device Status (Implanted: 17-Nov-2010)

Battery Voltage (RRT=2.63V)	3.13 V	(09-Aug-2012)
Last Full Charge	9.1 sec	(19-May-2012)
	<b>Atrial(6076)</b>	<b>RV(6935)</b>
Pacing Impedance	494 ohms	475 ohms
Defibrillation Impedance		RV=84 ohms
Capture Threshold	1.000 V @ 0.40 ms	High
Measured On	09-Aug-2012	09-Aug-2012
Programmed Amplitude/Pulse Width	2.00 V / 0.40 ms	5.00 V / 1.00 ms
Measured P/ R Wave	2.0 mV	6.4 mV
Programmed Sensitivity	0.30 mV	0.30 mV

### Parameter Summary

Mode	AAIR<=>DDDR	Lower Rate	70 bpm	Paced AV	180 ms
Mode Switch	171 bpm	Upper Track	150 bpm	Sensed AV	150 ms
		Upper Sensor	120 bpm		

Detection		Rates	Therapies
AT/AF	Monitor	>171 bpm	All Rx Off
VF	On	>200 bpm	ATP During Charging, 25J, 35J x 5
FVT	via VF	200-250 bpm	Burst(2), Ramp(1), 25J, 35J x 3
VT	OFF		All Rx Off

Enhancements On: AF/Afl, Sinus Tach, VT Monitor

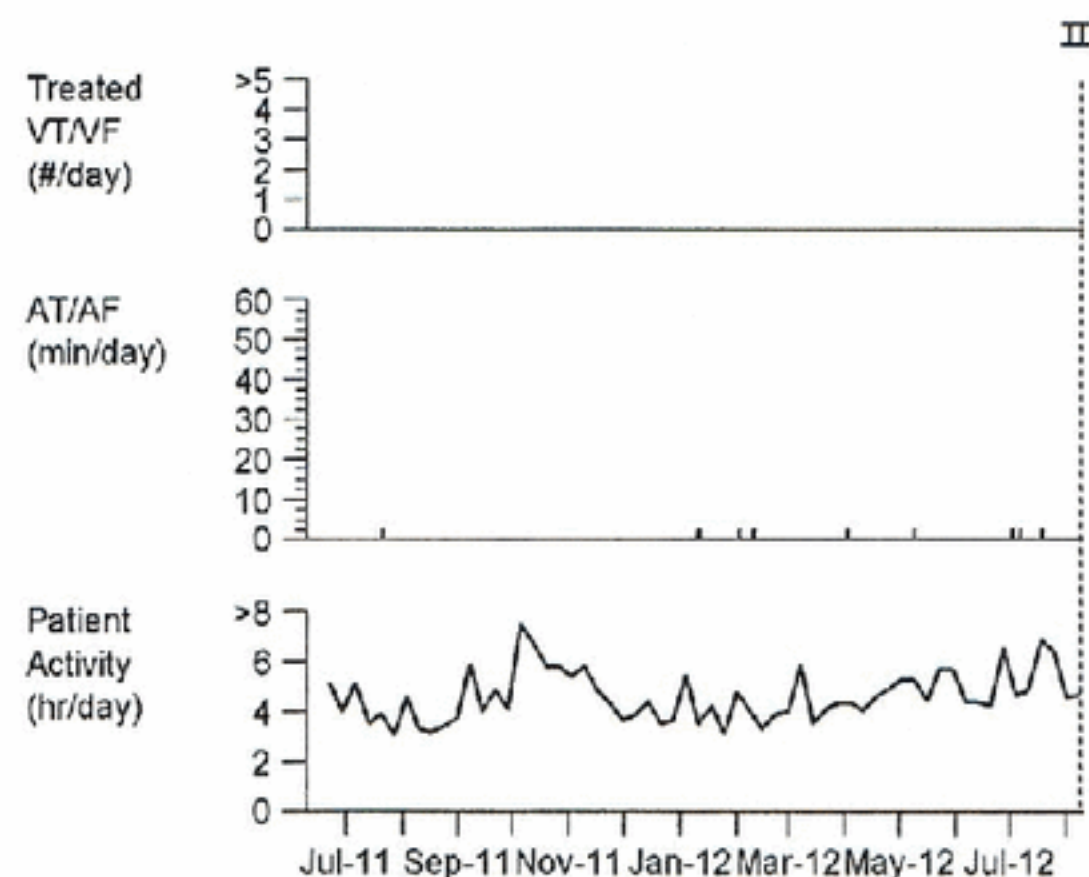
### Clinical Status Since 06-Dec-2010

<b>Treated</b>	
VF	0
FVT	0
VT (Off)	
AT/AF(Monitor)	
<b>Monitored</b>	
VT(182-200 bpm)	0
VT-NS (>4 beats, >200 bpm)	0
SVT: VT/VF Rx Withheld	0
AT/AF	0

Time in AT/AF <0.1 hr/day (<0.1%)

**Functional** Last Week  
Patient Activity 4.7 hr/day

### Cardiac Compass Trends (Jun-2011 to Aug-2012)



Therapy Summary	VT/VF	AT/AF	Pacing (% of Time Since 06-Dec-2010)
Pace-Terminated Episodes	0	0	Total VP <0.1 % (MVP On)
Shock-Terminated Episodes	0	0	AS-VS 26.5 %
Total Shocks	0	0	AS-VP <0.1 %
Aborted Charges	0	0	AP-VS 73.4 %
			AP-VP <0.1 %

### OBSERVATIONS (2)

- Possible fluid accumulation: exceeded OptiVol Threshold, 22-Jul-2012 -- 01-Aug-2012.
- High RV threshold on 09-Aug-2012.



## Session Summary

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### Device Information

Device	Medtronic	Secura DR D224DRG	PUG235773H	Implanted: 17-Nov-2010
Atrial	Medtronic	5076 CapSureFix® Novus	PJN2373275	Implanted: 17-Nov-2010
RV	Medtronic	6935 Sprint Quattro Secure S	TAU052173V	Implanted: 17-Nov-2010

### Device Status (Implanted: 17-Nov-2010)

Battery Voltage (RRT=2.63V)	3.13 V	(09-Aug-2012)
Last Full Charge	9.1 sec	(19-May-2012)
	<b>Atrial(5076)</b>	<b>RV(6935)</b>
Pacing Impedance	494 ohms	475 ohms
Defibrillation Impedance		RV=84 ohms
Capture Threshold	1.000 V @ 0.40 ms	High
Measured On	09-Aug-2012	09-Aug-2012
In-Office Threshold	1.00 V @ 0.40 ms	5.00 V @ 0.30 ms
Programmed Amplitude/Pulse Width	2.00 V / 0.40 ms	5.00 V / 1.00 ms
Measured P/ R Wave	2.0 mV	6.4 mV
In-Office P/R Wave	1.9 mV	5.5 mV
Programmed Sensitivity	0.30 mV	0.30 mV

### Parameter Summary

Mode	AAIR<=>DDDR	Lower Rate	70 bpm	Paced AV	180 ms
Mode Switch	171 bpm	Upper Track	150 bpm	Sensed AV	150 ms
		Upper Sensor	120 bpm		

### Detection

AT/AF	Monitor
VF	On
FVT	via VF
VT	OFF

### Rates

>171 bpm
>200 bpm
200-250 bpm

### Therapies

All Rx Off
ATP During Charging, 25J, 35J x 5
Burst(2), Ramp(1), 25J, 35J x 3
All Rx Off

Enhancements On: AF/Afl, Sinus Tach, VT Monitor

### Changes This Session

Session Start    Current Value

No parameters have been changed during the current session.



# Initial Interrogation: AT/AF Summary

Device: Secura DR D224DRG

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Patient: Hubbard,Amanda

ID: [REDACTED]

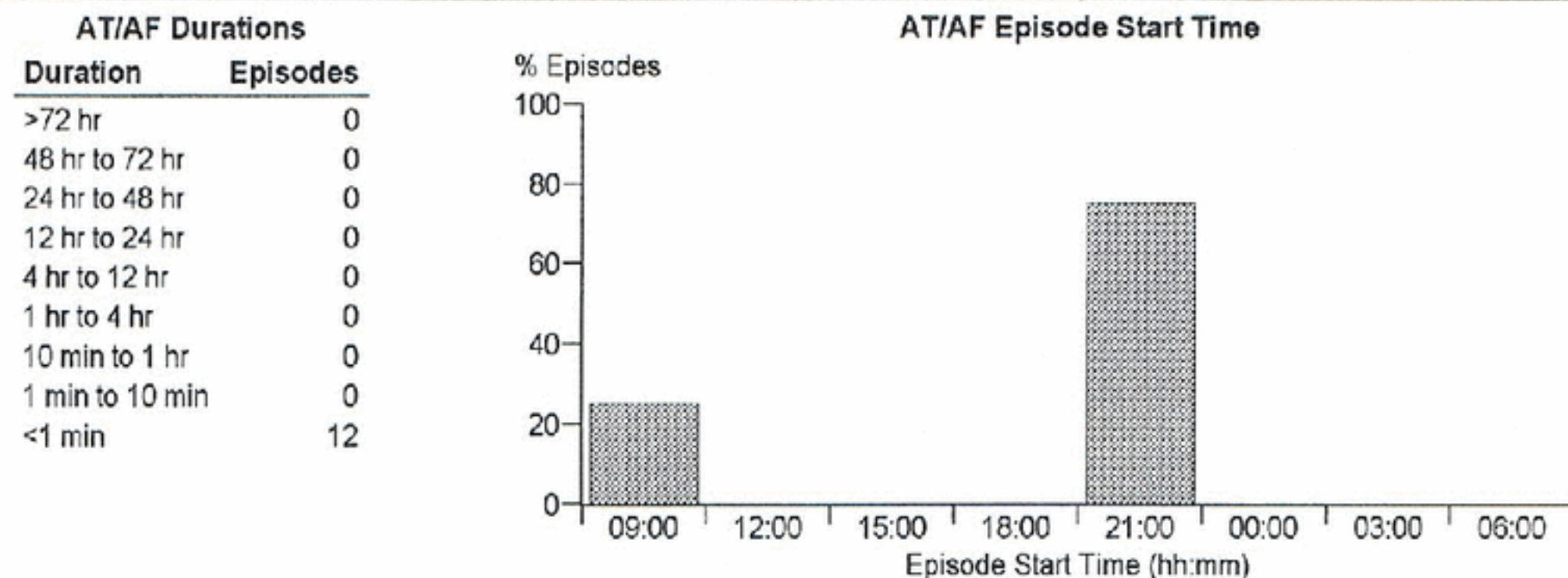
Physician: Pablo Saavedra,MD

Prior Session	Last Session
18-Nov-2010 to	06-Dec-2010 to
06-Dec-2010	09-Aug-2012
18 days	20 months

## AT/AF Summary

% of Time AT/AF	0.0	%	<0.1	% ↑
Average AT/AF time/day	0.0	hours/day	<0.1	hours/day ↑
Monitored AT/AF Episodes	0.0	per day	0.0	per day
Treated AT/AF Episodes	0.0	per day	0.0	per day
Pace-Terminated Episodes	0.0	%	0.0	%
% of Time Atrial Pacing	78.2	%	73.5	% ↓
% of Time Atrial Intervention	0.0	%	0.0	%
AT-NS (>6 beats)	0.0	per day	<0.1	per day ↑

Since Last Session 06-Dec-2010 to 09-Aug-2012



AT/AF Rx Rx1:Off Rx2:Off Rx3:Off

Treated episodes  
% Terminated

ATP Rx versus

ms	100-149	150-199	200-249	250-299	300-349	350-399	400-449	ms
bpm	401-600	301-400	241-300	201-240	172-200	151-171	133-150	bpm

Treated episodes  
% Terminated

ATP Sequences: 0 delivered, 0 aborted

Automatic Shocks: 0 delivered, 0 failed

Patient Activated Shocks: 0 delivered, 0 failed



# Rate Histograms

Device: Secura DR D224DRG

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Patient: Hubbard,Amanda

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Physician: Pablo Saavedra,MD

## Prior to Last Session

18-Nov-2010 to 06-Dec-2010

18 days

## Since Last Session

06-Dec-2010 to 09-Aug-2012

20 months

% of Time

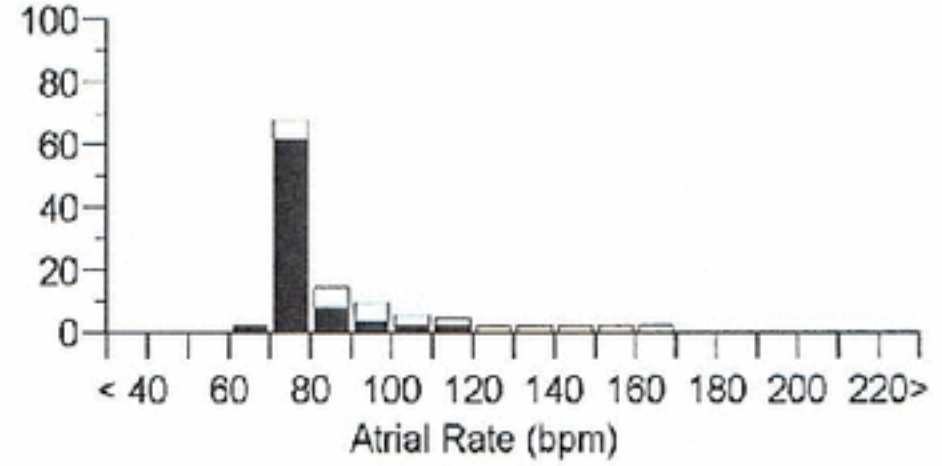
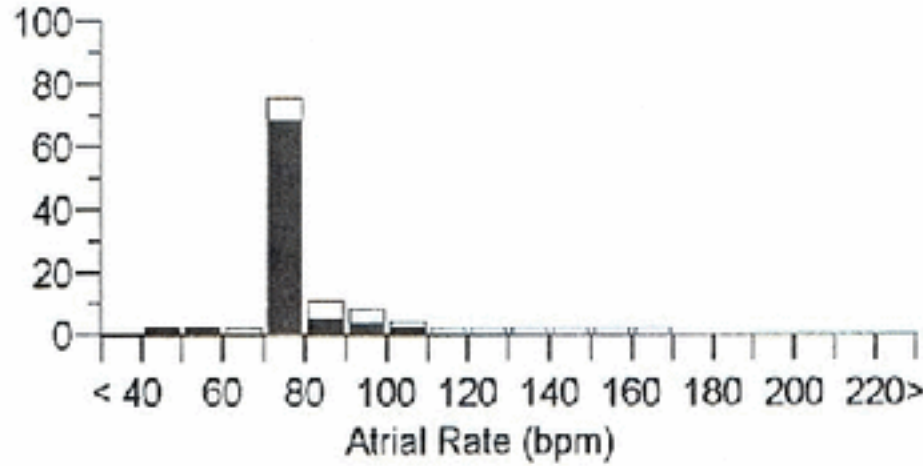
Total VP	< 0.1%
AS-VS	21.7 %
AS-VP	< 0.1%
AP-VS	78.3 %
AP-VP	< 0.1%

< 0.1%
26.5 %
< 0.1%
73.4 %
< 0.1%

## Atrial

% of Time

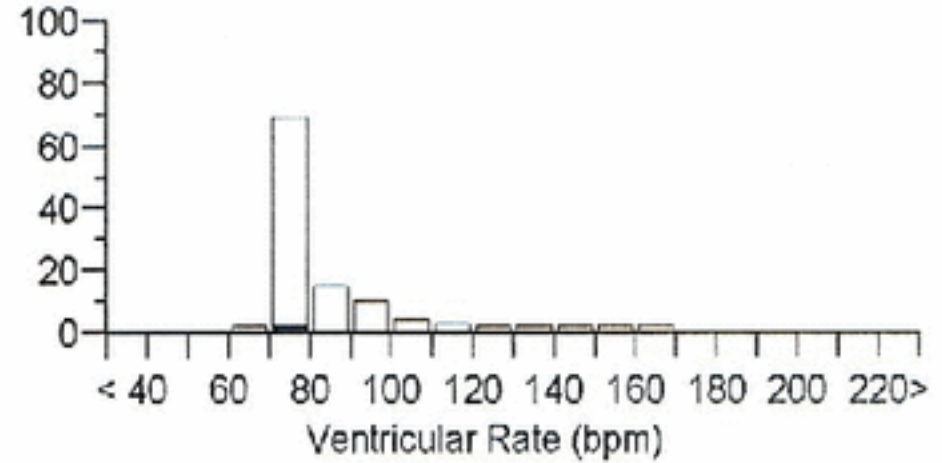
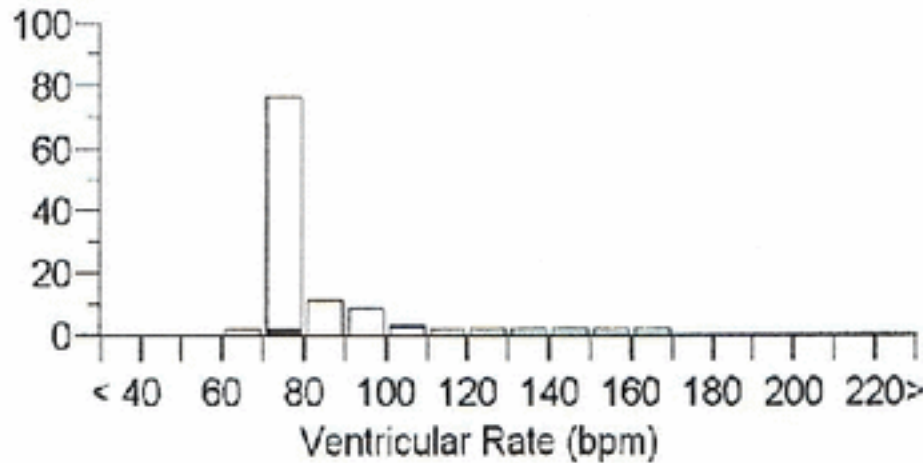
□ AS  
■ AP



## Ventricular

% of Time

□ VS  
■ VP



## Ventricular

Rate

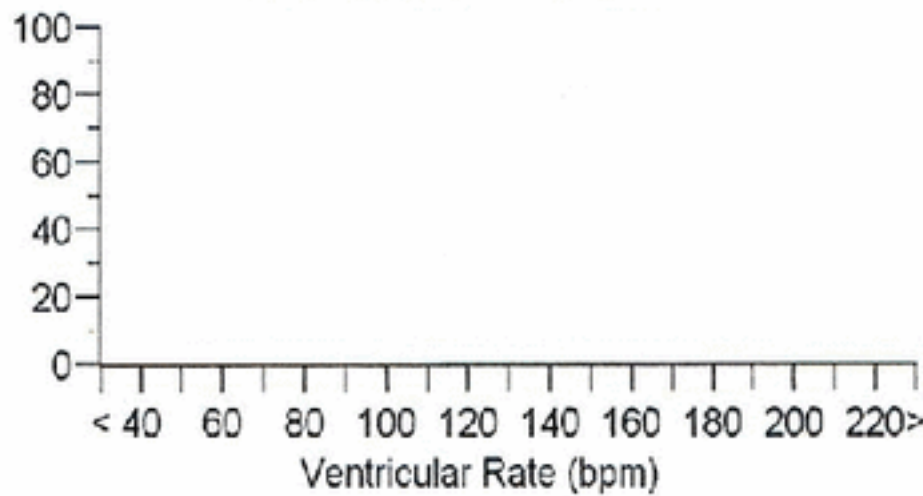
During

AT/AF

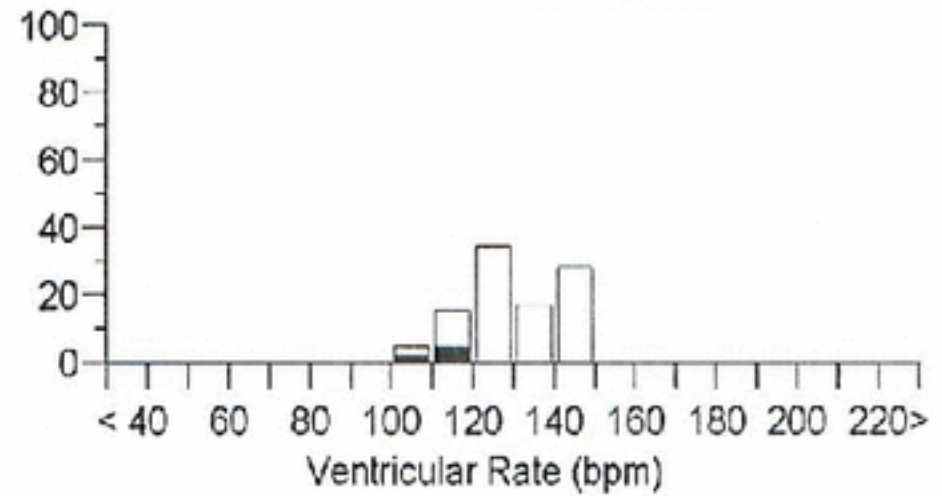
% of AT/AF

□ VS  
■ VP

## Time in AT/AF = 0 seconds



## Time in AT/AF = 24 seconds



# Cardiac Compass Report

Device: Secura DR D224DRG

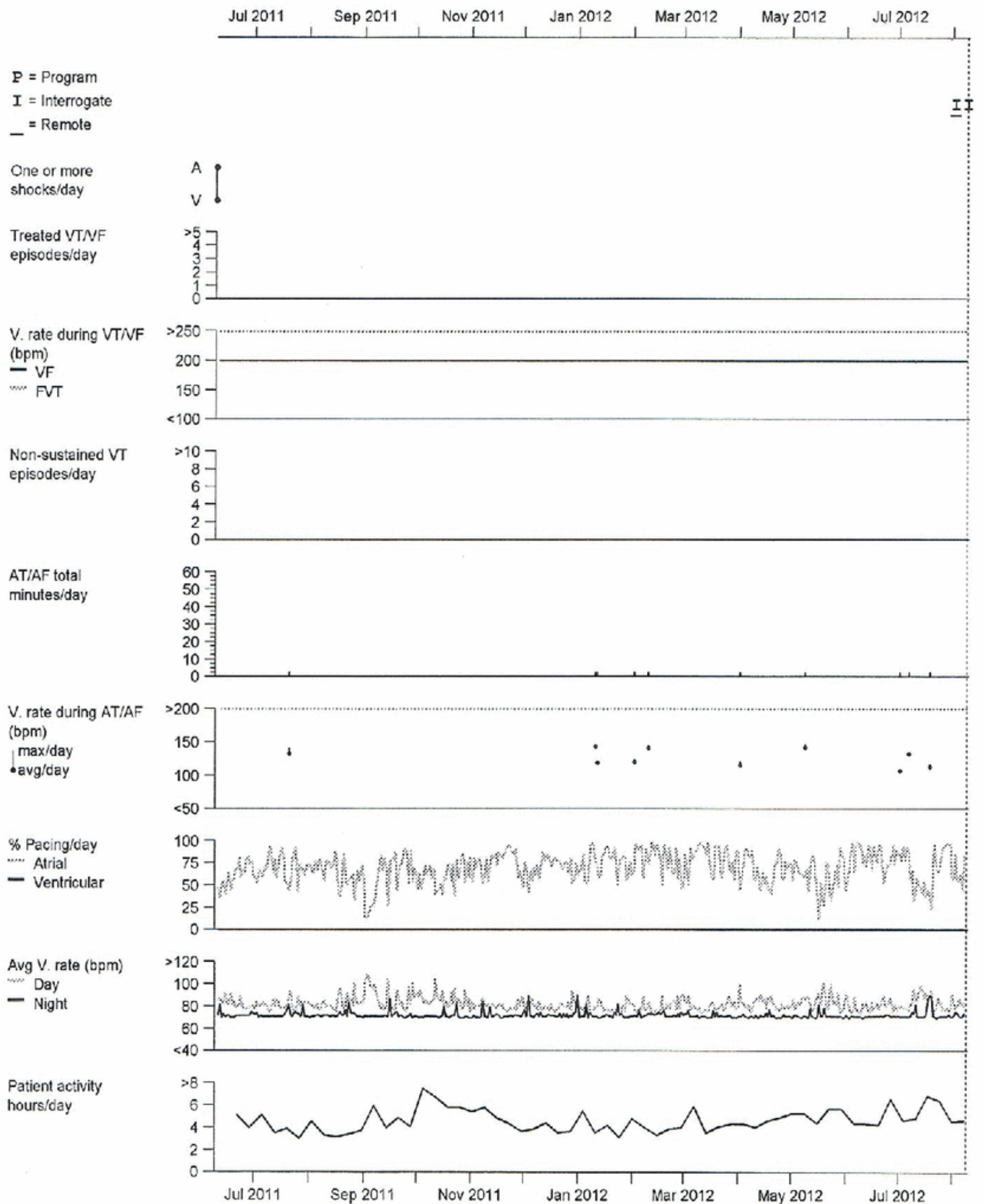
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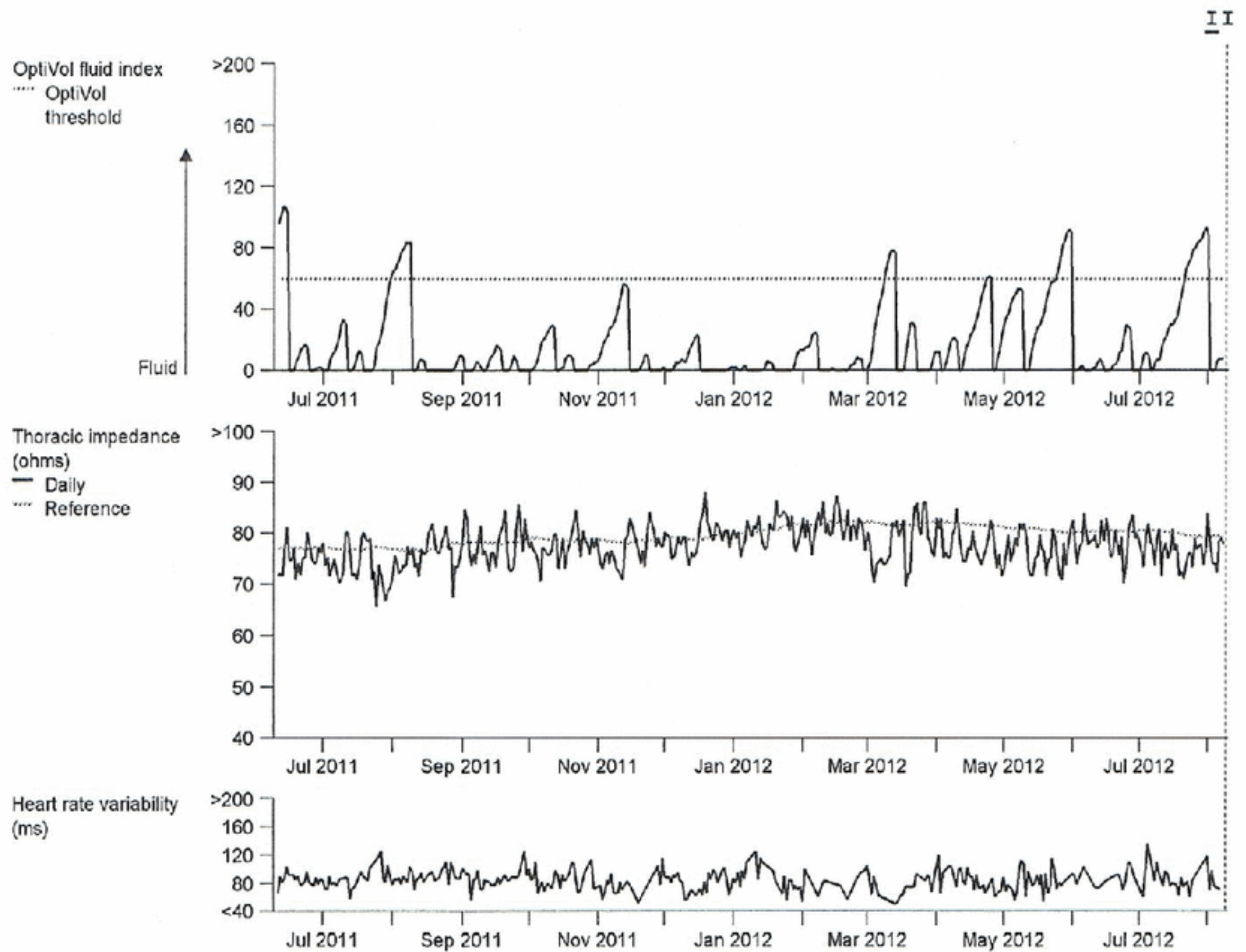
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OptiVol fluid index is an accumulation of the difference between the daily and reference impedance.



# Lead Trend - RV Threshold 15 Days Detail

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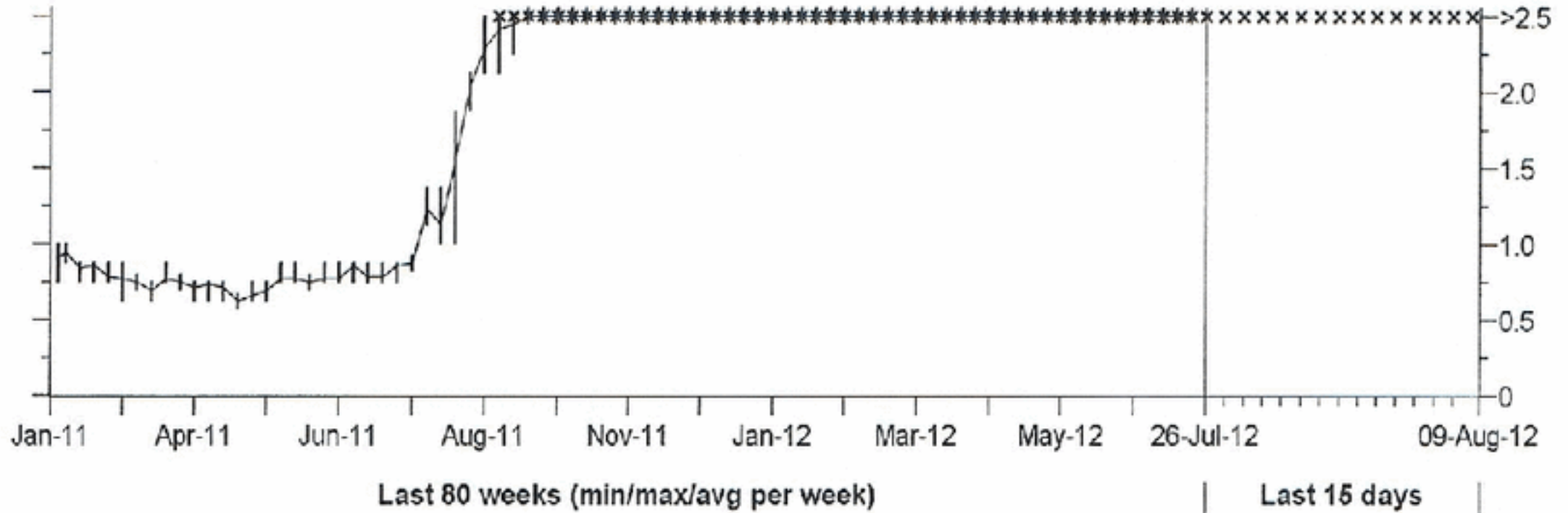
ID: [REDACTED]

Physician: Pablo Saavedra, MD

Amplitude	5.00 V	Capture	Adaptive
Pulse Width	1.00 ms	Safety Margin	2.0 X
Last Measured	High	Min. Adapted Amplitude	2.00 V

x = High Threshold

V @ 0.40 ms



Date	Time hh:mm	Threshold V @ 0.40 ms	Amplitude (V)	Actual Safety Margin (X)	Notes
09-Aug-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
08-Aug-2012	01:30	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
07-Aug-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
06-Aug-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
05-Aug-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
04-Aug-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
03-Aug-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
02-Aug-2012	01:30	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
01-Aug-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
31-Jul-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
30-Jul-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
29-Jul-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
28-Jul-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
27-Jul-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)
26-Jul-2012	01:00	>2.500 V	5.00	---	Abort - High threshold (>2.5V)